

Super-stable Fiber Laser Welding Machine

1.5KW / 2KW / 3KW

Be suitable for robotic laser welding and handheld laser welding.



Product Advantages

Stability

- Super-stable electronic control solution of laser brings extremely stable power output and helps power fluctuation less than 1.5%;
- Industrial-grade electronic control design of laser enables annual average laser power attenuation being less than 4%.

Consistency

- In the case of dramatic changes of environments (such as grid fluctuations, temperature changes, etc.), performance of each machine is able to be always consistent;
- Unique hardware design and software control ensures that output parameters of machine are still accurate and consistent after a long period of service.

Product Performance

Superior Performance

- Two modes are available: continuous and pulse, adaptive for heat conduction welding of thin plates and deep penetration welding of medium&thick plates with a large depth-to-width ratio;
- High efficiency to save time and labor, one laser welding machine be equivalent to four TIG machines.

Friendly Operation

- Industrial-grade LCD touch-screen supports friendly operation, and simple & efficient human-computer interaction;
- 10 JOBS to save parameters with user-defined, suitable for both handheld welding and robotic welding.

Weldable Materials

- Carbon steel, stainless steel, high-strength steel, galvanized sheet, corrugated sheet, aluminum alloy, magnesium alloy, alloy and other kinds of metals.

Industry Application

- Sheet metal, kitchen utensils, tableware, cabinet, hardware building materials, doors&windows, elevators, shelves, handicraft and other civil-level hardware parts;
- Auto parts, two/tricycles, photovoltaics, energy storage, charging devices and other occasions with diversified welding positions and complicated processes, especially suited to robot and automatic laser welding.



Laser Welding vs. Conventional Welding

Welding method	Welding speed	Operation	Welding quality			Environmental friendly	
			Weld Forming	Workpiece deformation	Post-weld treatment	Environmental pollution	Personal hazard
Megmeet Super-stable fiber laser welding	Extremely fast	Extremely easy	Good	Small	None	Small	Low
Conventional arc welding	Slow	Hard, and welders need to have certification	So-so	Big	Polishing and shaping	Many spatter and large pollution	High
YAG laser welding	Slow	So-so	Good	Small	Polishing	Mid-level	Low

Product Specification

Product Name	MEGMEET Super-stable Fiber Laser Welding Machine		
Product Models	LS-1500	LS-2000	LS-3000
Rated input voltage	220V 50/60HZ	220V 50/60HZ	380V 50/60HZ
Rated input power	6KW	8KW	12KW
Rated output laser power	1.5KW	2KW	3KW
Output laser wavelength	1080±10nm	1080±10nm	1080±10nm
Cable length	Standard is 10 meters and could be extended to 15 meters		
Working method	Continuous and modulated		
Cooling method	Water-cooled (industrial dual-temperature & dual-control constant temperature water cooler)		
Working temperature range	-10°C ~ 40°C	-10°C ~ 40°C	-10°C ~ 40°C
Working humidity range (Tc=40°C)	<70% no condensation	<70% no condensation	<70% no condensation
Welding thickness	0.5-5mm	0.5-6mm	0.5-8mm
Welding gap	≤1mm	≤1mm	≤1mm
Dimensions (L*W*H)	915*790*540mm	915*790*540mm	915*790*540mm
Weight	≤90kg	≤90kg	≤130kg

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